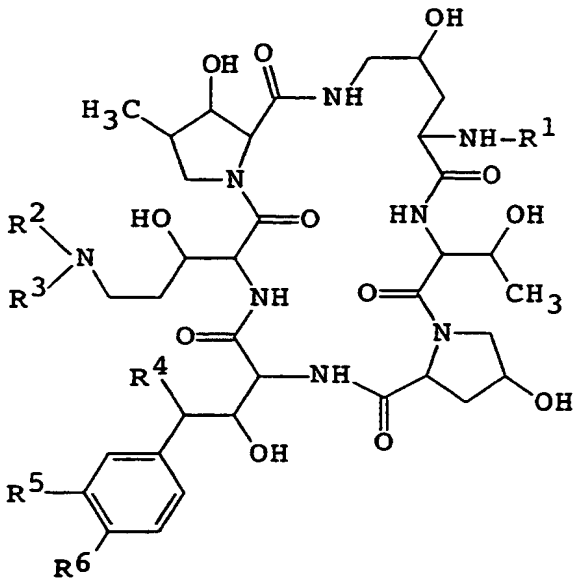
C L A I M S

1. A polypeptide compound of the following general formula (I):



(I)

wherein

R^1 is hydrogen or acyl group,

R^2 and R^3 are independently hydrogen, lower alkyl which may have one or more suitable substituent(s),
acyl group,
heterocyclic group which may have one or more suitable substituent(s),
lower alkylidenyl which may have one or more suitable substituent(s),
higher alkyl which may have one or more suitable substituent(s) or
cyano,

R^4 is hydrogen or hydroxy,

R^5 is hydrogen, hydroxy, lower alkoxy or hydroxysulfonyloxy, and

R^6 is hydroxy or acyloxy,

or a salt thereof.

2. A compound of ~~claim 1~~, wherein
R^2 and R^3 are independently hydrogen;
lower alkyl which may have one or more suitable substituent(s) selected from the group consisting of amino, carboxy, sulfinic acid group, sulfonic acid group, hydroxy(lower)alkylamino which may have hydroxy(lower)alkyl, hydroxysulfonyloxy, imino, lower alkoxy, oxo, lower alkylthio, cyano(lower)alkylidene, and heterocyclic group which may have one or more lower alkyl;
lower alkoxycarbonyl which may have one or more suitable substituent(s) selected from the group consisting of lower alkanoyloxy and heterocyclic group;
lower alkenyloxycarbonyl;
ar(lower)alkoxycarbonyl;
lower alkanoyl which may have one or more suitable substituent(s) selected from the group consisting of amino, hydroxy and heterocyclic group;
heterocycliccarbonyl;
mono or di(lower)alkylcarbamoyl;
sulfonic acid group;
heterocyclic group which may have one or more suitable substituent(s) selected from the group consisting of lower alkyl, hydroxy(lower)alkyl, carboxy(lower)alkanoyl which may have amino, heterocycliccarbonyl, cyclo(lower)alkyl, and oxo;
lower alkylidene which may have mono or di lower alkylamino;
carboxy(higher)alkyl or
cyano.

3. A compound of claim 2, wherein
R^2 and R^3 are independently hydrogen;

(C_1-C_6)alkyl which may have 1 or 2 suitable substituent(s) selected from the group consisting of amino, carboxy, sulfinic acid group, sulfonic acid group, hydroxy(C_1-C_4)alkylamino which may have hydroxy(C_1-C_4)alkyl, hydroxysulfonyloxy, imino, (C_1-C_4)alkoxy, oxo, cyano(C_2-C_4)alkylidene, (C_1-C_4)alkylthio, and pyrazolyl which may have (C_1-C_4)alkyl;

(C_1-C_4)alkoxycarbonyl which may have (C_1-C_4)-alkanoyloxy, dioxacyclo(C_4-C_6)alkenyl which may have oxo, and (C_1-C_4)alkyl;

fluorenyl(C_1-C_4)alkoxycarbonyl;

(C_2-C_4)alkenyloxycarbonyl;

(C_1-C_6)alkanoyl which may have 1 or 2 suitable substituent(s) selected from the group consisting of amino, hydroxy and pyrazolyl;

pyrrolidinylcarbonyl;

morpholinocarbonyl;

mono or di(C_1-C_4)alkylcarbamoyl;

sulfonic acid group;

piperidyl which may have 1 or 2 suitable substituent(s) selected from the group consisting of (C_1-C_4)alkyl, hydroxy(C_1-C_4)alkyl, carboxy(C_1-C_4)-alkanoyl which may have amino, and azetidinylcarbonyl;

dioxacyclo(C_4-C_6)alkyl which may have 1 or 2 suitable substituent(s) selected from the group consisting of (C_1-C_4)alkyl, and cyclo(C_4-C_6)alkyl;

thiopyranyl which may have 1 or 2 oxo;

(C_2-C_4)alkylidene which may have mono or di(C_1-C_4)alkylamino;

carboxy(C_7-C_{14})alkyl or

cyano.

4. A compound of claim 3, wherein

R^2 and R^3 are independently hydrogen, methyl, aminoethyl, aminobutyl, aminopentyl, carboxymethyl, carboxyethyl, carboxypentyl, sulfonylmethyl, hydroxysulfonylpropyl, hydroxysulfonylbutyl, dihydroxyisopropylaminobutyl, hydroxysulfonyloxypropyl, 1-iminomethoxypropyl, 1-iminocarbamoylethyl, amidino, 2-cyano-1-methylthiovinyl, 2-cyano-1-aminovinyl, methylpyrazolylmethyl, tert-butoxycarbonyl, acetyloxymethoxycarbonyl, 1,3-dioxa-2-oxo-4-methylcyclopentenylmethoxycarbonyl, allyloxycarbonyl, fluorenylmethoxycarbonyl, acetyl, aminopropionyl, aminovaleryl, diaminohexanoyl, 2-hydroxy-4-aminovaleryl, 2-amino-3-pyrazolylpropionyl, pyrrolidinylcarbonyl, morpholinocarbonyl, dimethylcarbamoyl, diethylcarbamoyl, hydroxysulfonyl, piperidyl, dimethylpiperidyl, hydroxyethylmethylpiperidyl, carboxypropionylpiperidyl, 4-amino-4-carboxybutyrylpiperidyl, azetidinylcarbonylpiperidyl, dimethyl-1,3-dioxacyclohexyl, cyclohexyl-1,3-dioxacyclohexyl, dioxothiopyranyl, dimethylaminomethylidene, carboxyheptyl or cyano.

5. A compound of claim 1, wherein

R^1 is hydrogen; lower alkoxycarbonyl; aroyl which has heterocyclic group substituted with aryl having a suitable substituent selected from the group consisting of lower alkoxy, lower alkoxy(lower)alkoxy, lower alkoxy(higher)alkoxy, aryl substituted with lower alkoxy(lower)alkoxy, cyclo(lower)alkyl, cyclo(lower)alkyloxy, aryl substituted with lower alkoxy, aryl substituted with lower alkoxy(lower)alkyl, aryl substituted with

heterocyclic group, heterocyclic group substituted with cyclo(lower)alkyl, heterocyclic group, heterocyclic group substituted with aryl, heterocyclic group substituted with aryloxy, heterocyclic group substituted with ar(lower)alkoxy, heterocyclic group substituted with lower alkoxy and aryl, higher alkoxy, heterocyclic(higher)alkoxy, lower alkoxy(higher)alkylsulfonyl, aryloxy(lower)alkoxy, heterocyclic group substituted with cyclo(lower)alkyloxy, heterocyclic group substituted with aryl having lower alkoxy(lower)alkoxy, heterocyclic group substituted with lower alkylthio, heterocyclic group substituted with lower alkoxy(lower)alkylthio, and heterocyclic group substituted with lower alkoxy(lower)alkoxy;

aroyl which has aryl substituted with a suitable substituent selected from the group consisting of lower alkoxy having cyclo(lower)alkyl and amino, lower alkoxy having cyclo(lower)alkyl and protected amino, aryl having lower alkoxy, heterocyclic group having lower alkyl, heterocyclic group having cyclo(lower)alkyl, and heterocyclic group having aryl substituted with heterocyclic group;

aroyl which has heterocyclic group substituted with cyclo(lower)alkyl having one or more suitable substituent(s) selected from the group consisting of lower alkyl, lower alkoxy, cyclo(lower)alkyl, and cyclo(lower)alkyl substituted with lower alkoxy;

higher alkanoyl;

aroyl which has higher alkoxy; or

heterocycliccarbonyl which has a suitable substituent(s) selected from the group consisting of heterocyclic group substituted with higher alkyl, heterocyclic group substituted with aryl having lower alkoxy, heterocyclic group substituted with aryl having

heterocyclic group, and aryl substituted with lower alkoxy(higher)alkoxy.

6. A compound of claim 5, wherein

R^1 is hydrogen; (C_1-C_4)alkoxycarbonyl;

benzoyl which has thiazolyl substituted with phenyl having (C_4-C_6)alkoxy;

benzoyl which has thiadiazolyl substituted with phenyl having a suitable substituent selected from the group consisting of (C_1-C_4)alkoxy(C_4-C_6)alkoxy, phenyl substituted with (C_1-C_4)alkoxy(C_1-C_4)alkoxy, (C_1-C_4)alkoxy(C_7-C_{14})alkoxy, cyclo(C_4-C_6)alkyl, cyclo(C_4-C_6)alkyloxy, phenyl substituted with (C_1-C_4)-alkoxy, phenyl substituted with (C_1-C_4)alkoxy(C_1-C_4)-alkyl, phenyl substituted with di(C_1-C_4)-alkylmorpholino, piperazinyl substituted with cyclo-(C_4-C_6)alkyl, piperazinyl substituted with cyclo-(C_4-C_6)alkyl having (C_1-C_4)alkyl; piperidyl, piperidyl substituted with phenyl, piperidyl substituted with phenoxy, piperidyl substituted with benzyloxy, piperidyl substituted with (C_1-C_4)alkoxy and chlorophenyl, and phenyl having di(C_1-C_4)alkylmorpholino;

benzoyl which has pyrimidinyl substituted with phenyl having (C_7-C_{14})alkoxy;

benzoyl which has isoxazolyl substituted with phenyl having a suitable substituent selected from the group consisting of (C_4-C_6)alkoxy, (C_1-C_4)alkoxy-(C_4-C_6)alkoxy, (C_1-C_4)alkoxy(C_7-C_{14})alkoxy, (C_7-C_{14})-alkoxy substituted with di(C_1-C_4)alkylmorpholino, and di(C_1-C_4)alkylmorpholino;

benzoyl which has oxadiazolyl substituted with phenyl having a suitable substituent selected from the group consisting of (C_4-C_6)alkoxy, (C_1-C_4)alkoxy(C_7-C_{14})alkoxy, (C_1-C_4)alkoxy(C_7-C_{14})-alkoxy, and (C_1-C_4)alkoxy(C_7-C_{14})alkylsulfonyl;

benzoyl which has piperazinyl substituted with phenyl having a suitable substituent selected from the group consisting of (C_1-C_4)alkoxy(C_4-C_6)alkoxy, (C_1-C_4)alkoxy(C_7-C_{14})alkoxy, phenoxy(C_1-C_4)alkoxy, cyclo(C_4-C_6)alkyl, phenyl substituted with (C_1-C_4)-alkoxy(C_4-C_6)alkoxyphenyl, phenyl substituted with di(C_1-C_4)alkylmorpholino, piperidyl substituted with cyclo(C_4-C_6)alkyloxy, piperidyl substituted with phenyl, piperidyl substituted with (C_1-C_4)alkoxy(C_1-C_4)-alkoxyphenyl, piperidyl substituted with (C_1-C_4)alkylthio, piperidyl substituted with (C_1-C_4)alkoxy(C_4-C_6)alkylthio, piperidyl substituted with cyclo(C_4-C_6)alkanespiro, piperidyl substituted with dioxacyclo(C_4-C_6)alkanespiro, piperidyl substituted with (C_1-C_4)alkoxy and phenyl, piperidyl substituted with (C_1-C_4)alkoxy and chlorophenyl, and di(C_1-C_4)-alkylmorpholino;

benzoyl which has piperazinyl substituted with cyclo(C_4-C_6)alkyl having a suitable substituent selected from the group consisting of cyclo(C_4-C_6)-alkyl, (C_4-C_6)alkyl, cyclo(C_4-C_6)alkyl and (C_1-C_4)-alkoxy, and cyclo(C_4-C_6)alkyl substituted with (C_1-C_4)-alkoxy;

benzoyl which has imidazothiadiazolyl substituted with phenyl having a suitable substituent selected from the group consisting of (C_4-C_6)alkoxy, (C_1-C_4)alkoxy-(C_4-C_6)alkoxy, cyclo(C_4-C_6)alkyloxy, piperazinyl substituted with cyclo(C_4-C_6)alkyl, piperidyl substituted with (C_1-C_4)alkoxy(C_1-C_4)alkoxy, piperidyl substituted with (C_1-C_4)alkoxy(C_4-C_6)alkoxy, piperidyl substituted with (C_1-C_4)alkoxy(C_4-C_6)alkylthio, and di(C_1-C_4)alkylmorpholino;

benzoyl which has phenyl substituted with a suitable substituent selected from the group consisting of (C_1-C_4)alkoxy having cyclo(C_4-C_6)alkyl and (C_1-C_4)-

alkoxycarbonylamino, (C_1-C_4)alkoxy having cyclo(C_4-C_6)-alkyl and amino, phenyl having (C_4-C_6)alkoxy, thiazolyl having (C_4-C_6)alkyl, piperazinyl having cyclo(C_4-C_6)-alkyl, piperazinyl having phenyl substituted with di(C_1-C_4)alkylmorpholino, and benzoxazolyl having (C_4-C_6)alkyl;

benzoyl which has (C_7-C_{14})alkoxy;

thiadiazolylcarbonyl which has pyrazolyl substituted with a suitable substituent selected from the group consisting of (C_7-C_{14})alkyl, phenyl having (C_4-C_6)alkoxy, and phenyl having piperidyl;

piperazinylcarbonyl which has xylyl substituted with (C_1-C_4)alkoxy(C_7-C_{14})alkoxy; or (C_7-C_{14})alkanoyl.

7. A compound of claim 6, wherein

R^1 is hydrogen;

benzoyl which has thiazolyl substituted with phenyl having pentyloxy;

benzoyl which has thiadiazolyl substituted with phenyl having a suitable substituent selected from the group consisting of methoxyhexyloxy, methoxyoctyloxy, phenyl substituted with methoxyethoxy, phenyl substituted with methoxybutoxy, methoxyheptyloxy, cyclohexyl, cyclohexyloxy, phenyl substituted with propoxy, phenyl substituted with ethoxymethyl, phenyl substituted with methoxypropoxy, phenyl substituted with dimethylmorpholino, piperazinyl substituted with cyclohexyl, piperazinyl substitued with methylcyclohexyl, piperidyl, piperidyl substituted with phenyl piperidyl substituted with phenoxy, piperidyl substituted with benzyloxy, piperidyl substituted with methoxy and chlorophenyl, and dimethylmorpholino;

benzoyl which has pyrimidinyl substituted with phenyl having octyloxy;

benzoyl which has isoxazolyl substituted with phenyl having a suitable substituent selected from the group consisting of pentyloxy, methoxyhexyloxy, phenyl having methoxyheptyloxy, heptyloxy substituted with dimethylmorpholino, octyloxy substituted with dimethylmorpholino, and dimethylmorpholino;

benzoyl which has oxadiazolyl substituted with phenyl having a suitable substituent selected from the group consisting of pentyloxy, methoxyheptyloxy, methoxynonyloxy, methoxyheptylsulfonyl, and methoxynonylsulfonyl;

benzoyl which has piperazinyl substituted with phenyl having a suitable substituent selected from the group consisting of methoxyhexyloxy, methoxyheptyloxy, phenoxypropoxy, cyclohexyl, phenyl substituted with methoxypentyloxyphenyl, phenyl substituted with dimethylmorpholino, piperidyl substituted with cyclohexyloxy, piperidyl substituted with phenyl, piperidyl substituted with methoxybutoxyphenyl, piperidyl substituted with propylthio, piperidyl substituted with methoxyhexylthio, piperidyl substituted with cyclobutanespiro, piperidyl substituted with dioxacyclobutanespiro, piperidyl substituted with methoxy and phenyl, piperidyl substituted with methoxy and chlorophenyl, and dimethylmorpholino;

benzoyl which has piperazinyl substituted with cyclohexyl having a suitable substituent selected from the group consisting of tert-butyl, cyclohexyl and methoxy, and cyclohexyl substituted with propoxy;

benzoyl which has imidazothiadiazolyl substituted with phenyl having a suitable substituent selected from the group consisting of methoxybutoxy, cyclohexyloxy, piperazinyl substituted with cyclohexyl, piperidyl substitued with methoxypropoxy, piperidyl substituted with methoxybutoxy, piperidyl substituted with

methoxypentyloxy, piperidyl substituted with methoxyhexyloxy, piperidyl substituted with methoxyhexylthio, and dimethylmorpholino;

benzoyl which has phenyl substituted with a suitable substituent selected from the group consisting of propoxy having cyclohexyl and tert-butoxycarbonylamino, cyclohexyl and amino, phenyl having pentyloxy, thiazolyl having pentyl, piperazinyl having cyclohexyl, piperazinyl having phenyl substituted with dimethylmorpholino, and benzoxazolyl having pentyl;

benzoyl which has octyloxy;

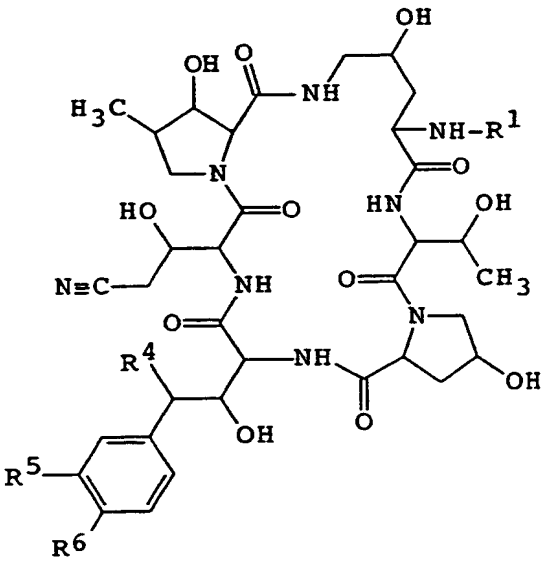
thiadiazolylcarbonyl which has pyrazolyl substituted with a suitable substituent selected from the group consisting of decyl, phenyl having hexyloxy, and phenyl having piperidyl;

piperazinylcarbonyl which has xylyl substituted with methoxyheptyloxy; or

palmitoyl.

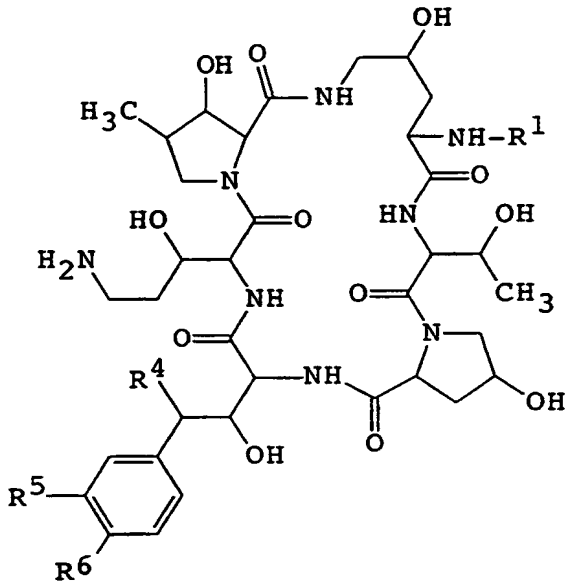
8. A process for preparing a polypeptide compound (I) of claim 1, or a salt thereof, which comprises,

i) reducing a compound (II) of the formula:



(II)

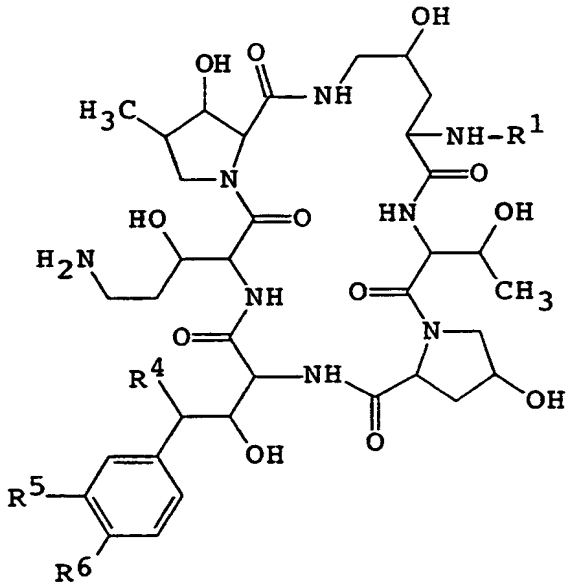
wherein R^1, R^4, R^5 and R^6 are as defined in claim 1, or a salt thereof, to give a compound (Ia) of the formula:



(Ia)

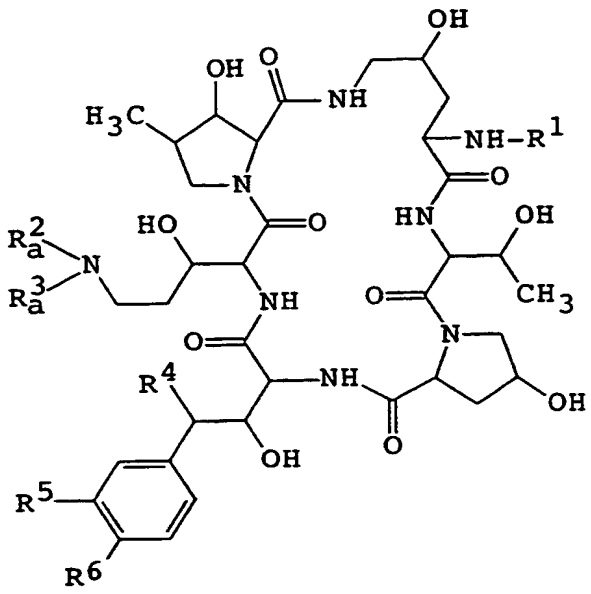
wherein R^1, R^4, R^5 and R^6 are as defined in claim 1, or a salt thereof, or

ii) subjecting a compound (Ia) of the formula:



(Ia)

wherein R^1, R^4, R^5 and R^6 are as defined in claim 1, or a salt thereof, to protective reaction of amino, to give a compound (Ib) of the formula:



(Ib)

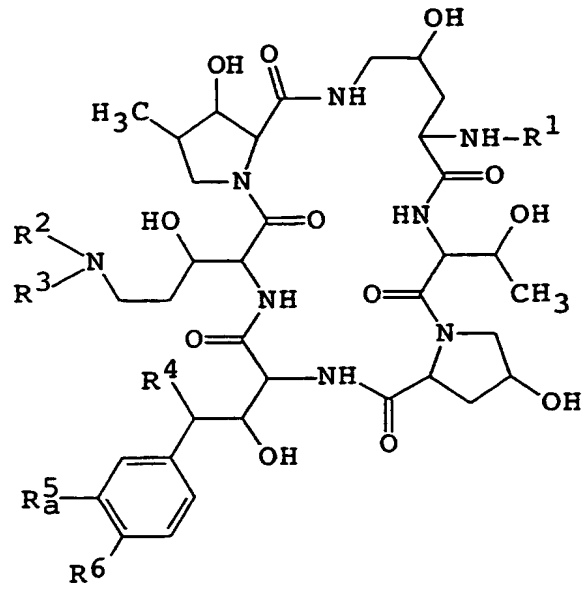
wherein R^1, R^4, R^5 and R^6 are defined in claim 1,

R_a^2 is hydrogen, lower alkyl which may have one or more suitable substituent(s), acyl group, heterocyclic group which may have one or more suitable substituent(s), lower alkylidenyl which may have one or more suitable substituent(s) or cyano and

R_a^3 is lower alkyl which may have one or more suitable substituent(s), acyl group, heterocyclic group which may have one or more suitable substituent(s), lower alkylidenyl which may have one or more suitable substituent(s) or cyano,

or a salt thereof, or

iii) subjecting a compound (Ic) of the formula:



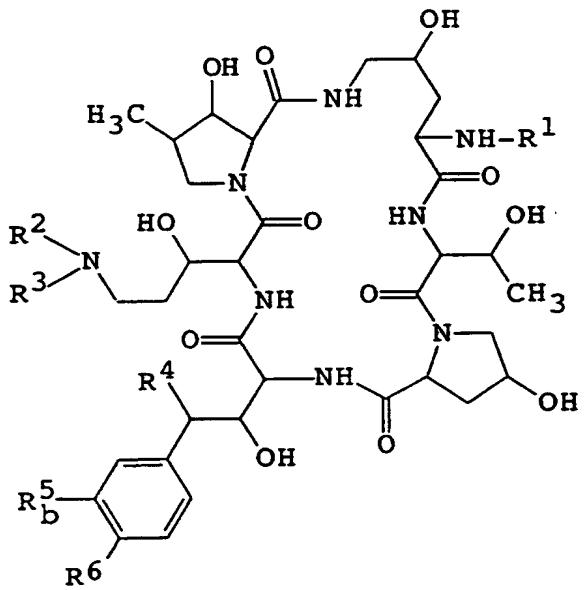
(Ic)

wherein R^1, R^2, R^3, R^4 and R^6 are defined in claim 1,

and

R^5_a is hydroxysulfonyloxy,

or a its reactive derivative at the sulfonic acid group, or a salt thereof, to hydrolysis reaction of the sulfonic acid group, to give a compound (Id) of the formula:



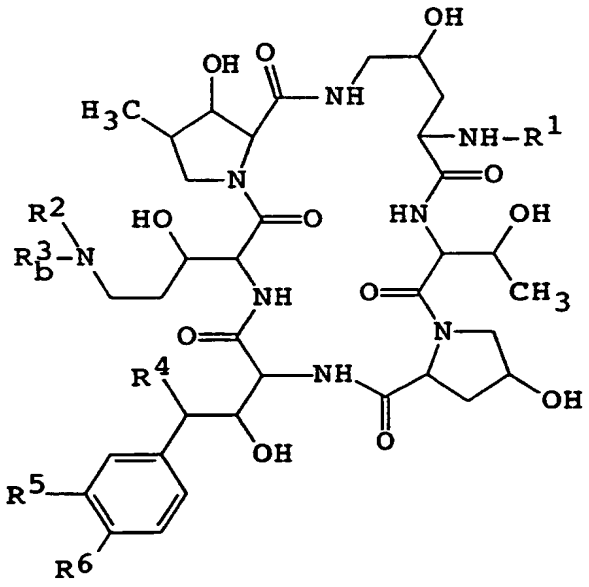
(Id)

wherein R^1, R^2, R^3, R^4 and R^6 are defined in claim 1, and

R^5_b is hydroxy,

or a salt thereof, or

iv) subjecting a compound (Ie) of the formula:

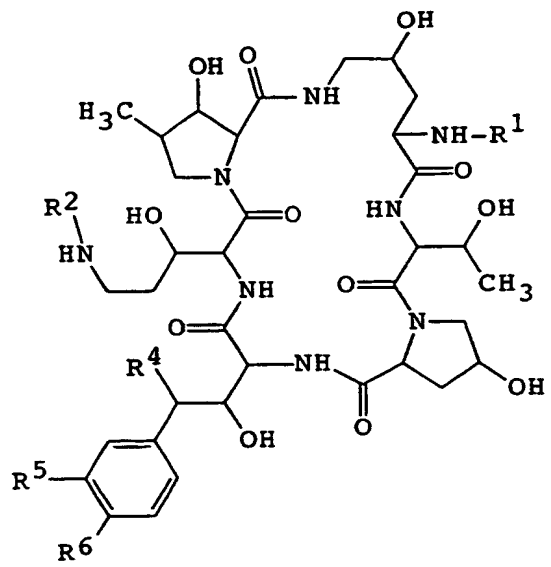


(Ie)

wherein R^1, R^2, R^4, R^5 and R^6 are defined in claim 1, and

R^3_b is amino protective group,

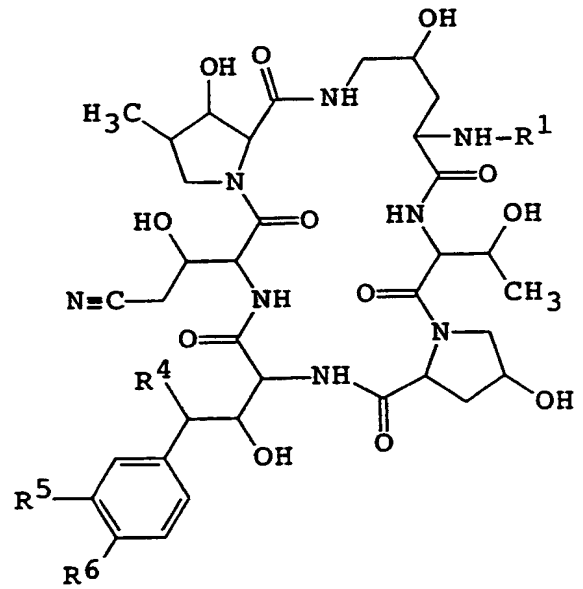
or a salt thereof, to elimination reaction of amino protective group, to give a compound (If) of the formula:



(If)

wherein R^1, R^2, R^4, R^5 and R^6 are defined in claim 1, or a salt thereof.

v) reducting a compound (II) of the formula:



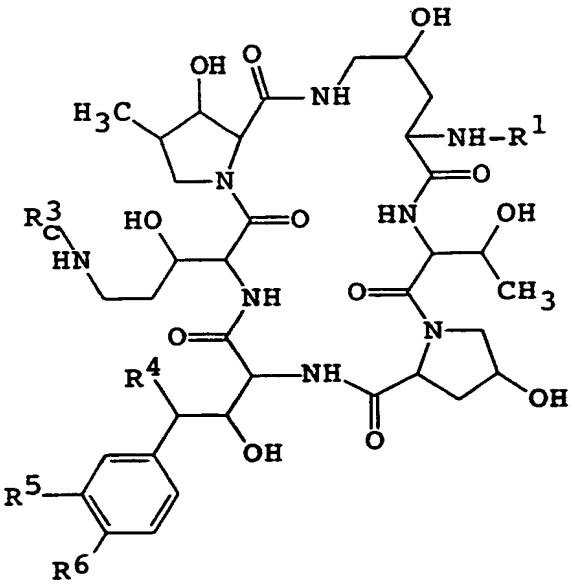
(II)

wherein R^1, R^4, R^5 and R^6 are defined in claim 1,

or its reactive derivative or a salt thereof, and then reacting with a compound (IV) of the formula.

$$R^3_C - OH \qquad (IV)$$

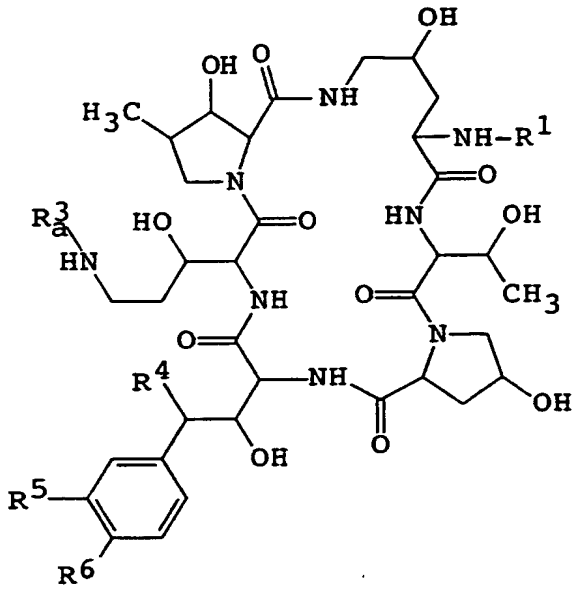
wherein R^3_C is acyl group,
or its reactive derivative or a salt thereof,
to give a compound (Ig) of the formula:



(Ig)

wherein R^1, R^4, R^5 and R^6 are defined in claim 1, and
R^3_C is acyl group,
or a salt thereof, or

vi) reacting a compound (Ih) of the formula:



(Ih)

wherein R^1, R^4, R^5 and R^6 are defined in claim 1, and

R^3_a is lower alkyl which may have one or more suitable substituent(s), acyl group, heterocyclic group which may have one or more suitable substituent(s), higher alkyl which may have one or more suitable substituent(s) or cyano,

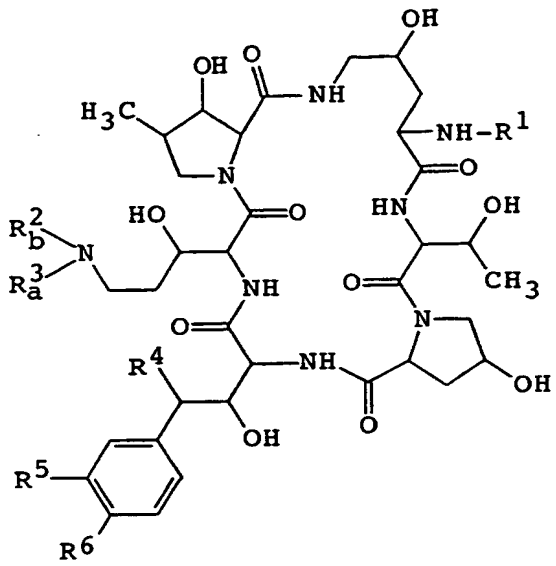
or its reactive derivative or a salt thereof, with a compound (V) of the formula:

$$R^2_b - OH \qquad (V)$$

wherein R^2_b is acyl group,

or its reactive derivative or a salt thereof,

to give a compound (Ii) of the formula:



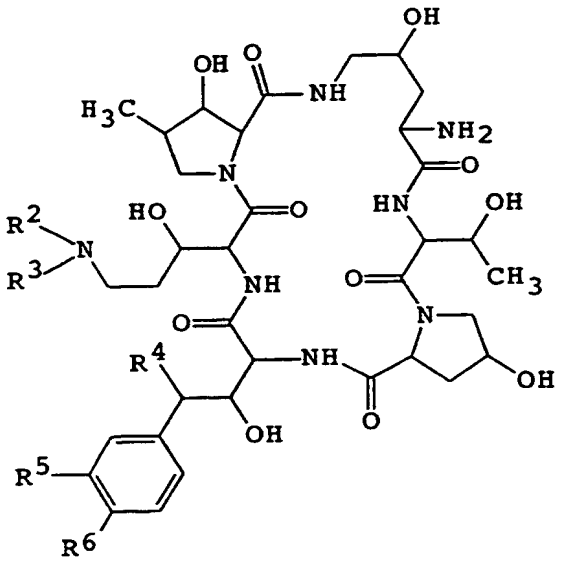
(Ii)

wherein R^1, R^4, R^5 and R^6 are defined in claim 1,

R_a^3 is lower alkyl which may have one or more suitable substituent(s), acyl group, heterocyclic group which may have one or more suitable substituent(s), higher alkyl which may have one or more suitable substituent(s) or cyano, and

R_b^2 is acyl group, or a salt thereof, or

vii) reacting a compound (Ij) of the formula:

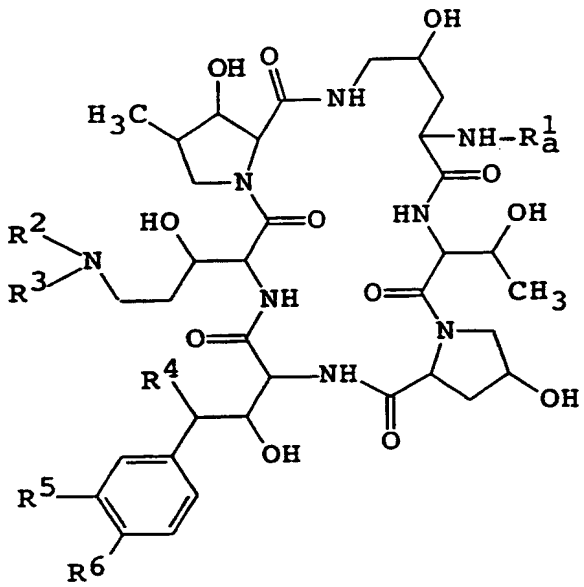


(Ij)

wherein R^2, R^3, R^4, R^5 and R^6 are defined in claim 1, or its reactive derivative at the amino group, or a salt thereof, with a compound (III) of the formula:

$$R^1_a - OH \qquad (III)$$

wherein R^1_a is acyl group,
or its reactive derivative at the carboxy group, or a salt thereof, to give a compound (Ik) of the formula:



(Ik)

wherein R^2, R^3, R^4, R^5 and R^6 are defined in claim 1,
and
R^1_a is acyl group.

9. A pharmaceutical composition which comprises, as an active ingredient, a compound of Claim 1 or a pharmaceutically acceptable salt thereof in admixture with pharmaceutically acceptable carrier or excipients.

10. Use of a compound of Claim 1 or a pharmaceutically acceptable salt thereof for the manufacture of a medicament.

11. A compound of Claim 1 or a pharmaceutically acceptable salt thereof for use as a medicament.

12. A method for the prophylactic and/or therapeutic treatment of infectious diseases caused by pathogenic microorganisms, which comprises administering a compound of claim 1 or a pharmaceutically acceptable salt thereof to a human being or an animal.